

2987-839

Period 2 CS 5

5 October 1998/V. Paolone

This candidate has 5 measured emulsion tracks from the primary interaction.

	U'	V'	
1)	-0.077	0.056	$\rightarrow -0.089 \quad 0.080$ (kink occurs in plate 11: $\Delta\theta = \sim 27$ mr)
2)	0.061	0.023	
3)	0.013	-0.187	
4)	0.042	-0.192	
5)	-0.169	-0.299	

The primary interaction is in module 3. The daughter of the kink is missing downstream of module 4, VDC and DC's. There is evidence that the track may scatter with a very large angle in the V view.

The visible energy is small. 2 GeV in the EMCal and two tracks in the downstream chambers of fitted momenta 1.3 GeV (emulsion track # 4) and -3.4 GeV (emulsion track # 2). There are no muons associated with the interaction.

Conclusions:

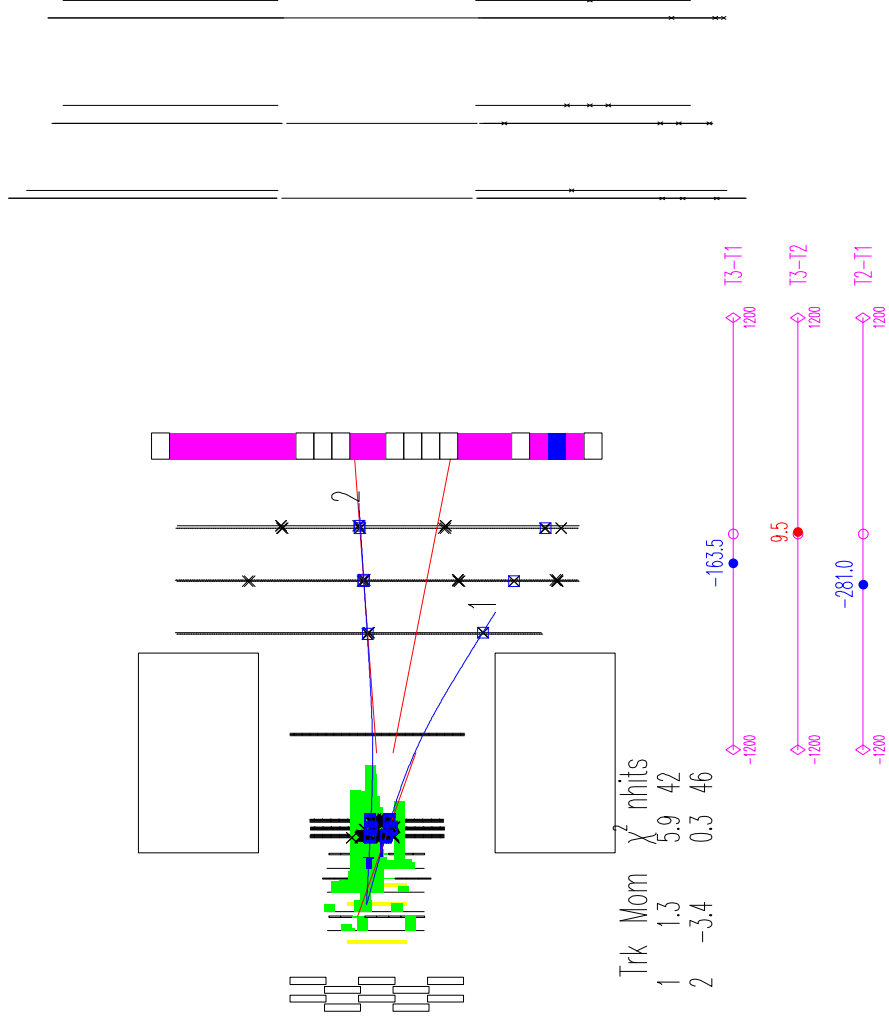
Because there is no evidence of the daughter track downstream of module 4 the momentum of this track must be small. Even with a momentum of 1 GeV the P_T of the kink must be less than 27 MeV. This is not a tau neutrino interaction.

Plots Included

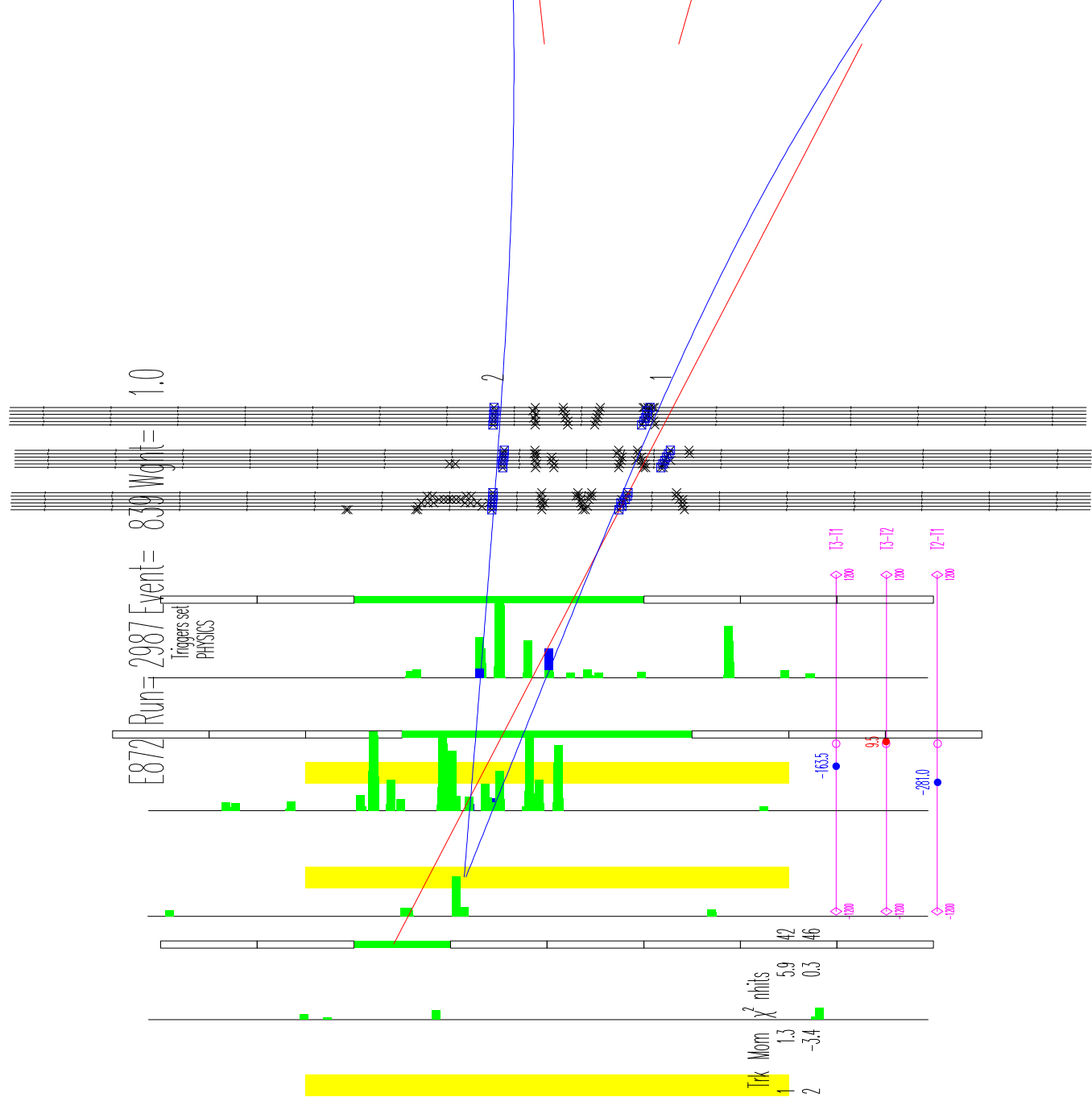
Plan View	2
Expanded X-view	3
Expanded U-view	4
Expanded V-view	5
EM calorimeter	6

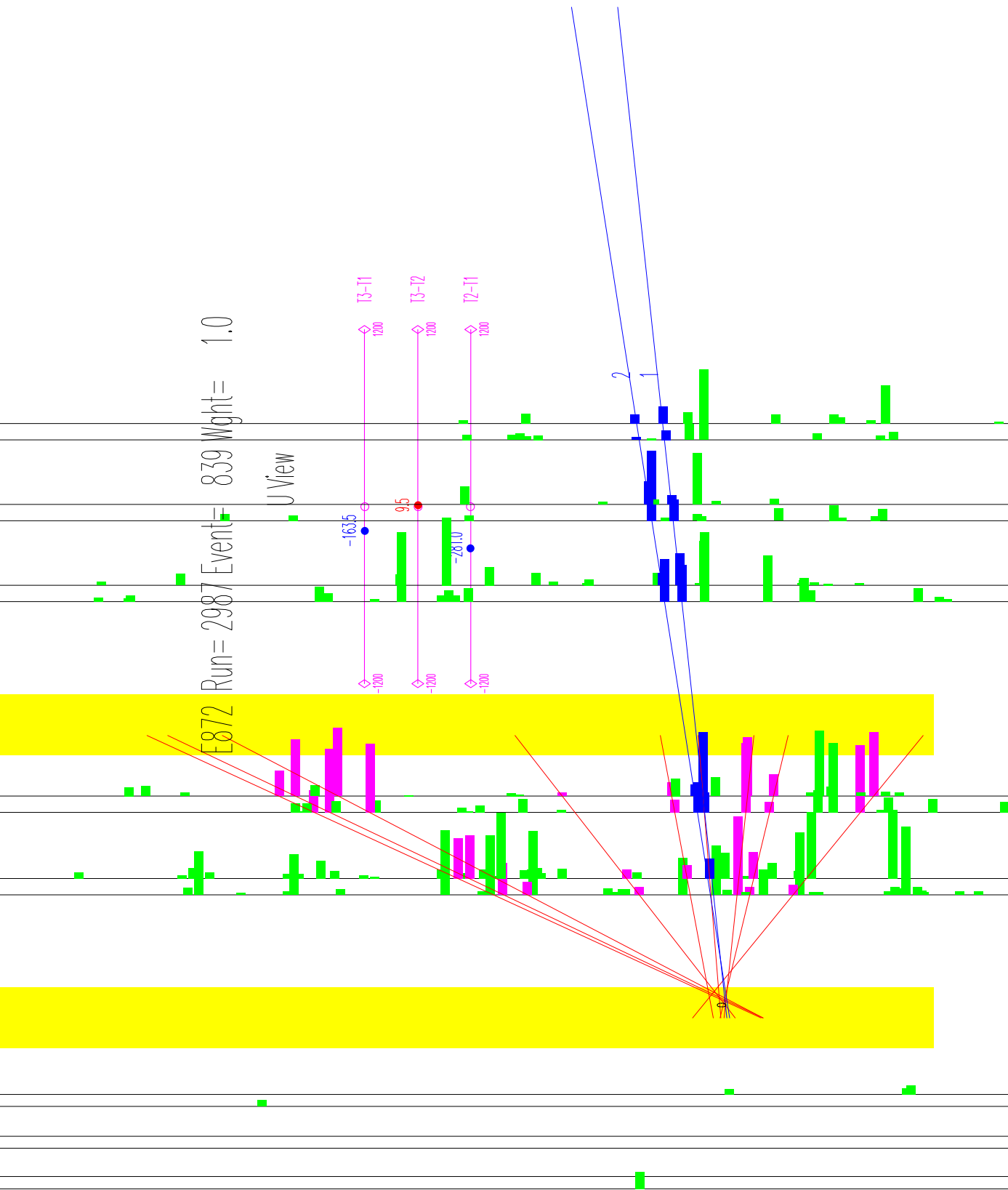
x

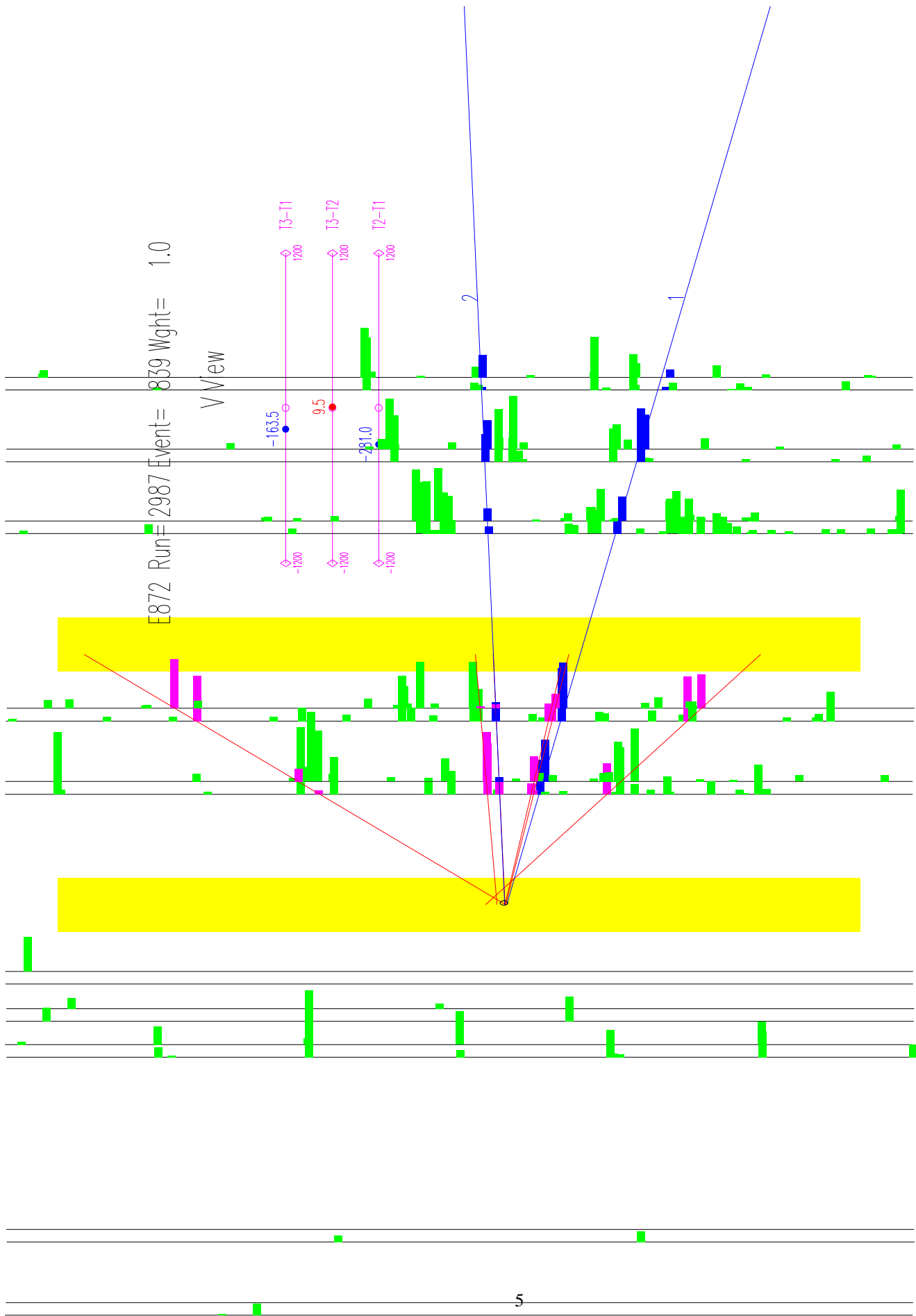
E872 Run= 2987 Event= 839 Wght= 1.0
Triggers set
PHYSICS



x







E872 Run= 2987 Event= 839

$E > 18 \text{ GeV}$
 $E < 18 \text{ GeV}$
 $E < 8.5 \text{ GeV}$
 $E < 4.0 \text{ GeV}$
 $E < 1.8 \text{ GeV}$
 $E < 0.9 \text{ GeV}$
 $E < 0.4 \text{ GeV}$

